

21  
B2  
Cont.  
3  
4  
for the heat stable enterotoxin II (STII) [from] of E. coli [is] operably linked to a nucleotide  
sequence which codes for mature interferon- $\alpha$ , and

(b) isolating the expressed interferon- $\alpha$ .

5  
6  
7  
8  
9  
10  
Claim 4 (Amended) The method of claim 1 wherein said isolating step comprises the  
steps of:

- B3  
(a) performing chromatography on silica gel;  
(b) performing hydrophobic interaction chromatography;  
(c) performing cation exchange chromatography; and  
(d) performing anion exchange chromatography.

11  
In claim 5, l. 2, please delete "sepharose" and insert therefor --Sephacrose<sup>TM</sup>--.

In-claim 7, l. 2, please delete "sepharose" and insert therefor --Sephacrose<sup>TM</sup>--.

In claim 9, ll. 1-2, please delete "consists essentially of" and insert therefor --comprising--.

1  
2  
3  
B4  
C2  
Claim 17. (Amended) A vector for expressing interferon- $\alpha$  in E. coli, comprising a DNA  
molecule coding for the signal [sequence] peptide of the heat stable enterotoxin II (STII) of E.  
coli [STII gene] operably linked to a DNA molecule which codes for mature human interferon- $\alpha$ .

Entry of the above Amendments are respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Robert W. Esmond  
Attorney for Applicants  
Registration No. 32,893

Date: Sept. 3, 1997

1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934  
(202) 371-2600

P46-18.WPD